PREFLIGHT PREPARATION AND RECOVERY TIPS

ESTES
A SUBSIDIARY OF DAMON

Wadding

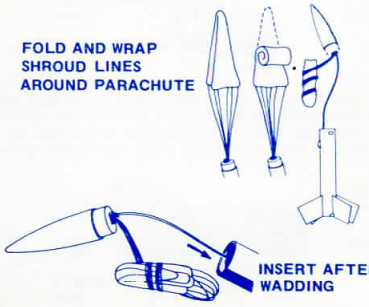
This material is used to protect your parachute or streamer from the heat of the engine's ejection charge. RP-1A is flame resistant, thus eliminating the possibility of recovery system failure.

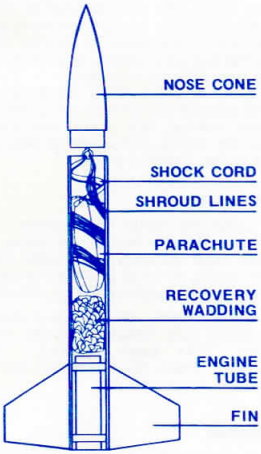
For maximum efficiency use enough wadding to fill the rocket body tube for a distance of twice the body diameter. Usually 2 or 3 squares will be adequate for 3/4" diameter body tubes and 6 or 7 squares for 1-1/2" tubes. When preparing the rocket for flight crumple the wadding loosely to get the maximum bulk from it and still obtain a good seal against the wall of the tube. Pack the 'chute or streamer in over the wadding.

Parachute

Fold the parachute into a triangular shape. Roll 'chute tightly as shown and wrap shroud lines around it. If 'chute is too large, unroll and repack until it slides easily into the rocket. A very tight fit may prevent parachute from ejecting properly.

Pack shock cord neatly into rocket and slide nose cone into place. NOTE: DO NOT pack parachute until you are actually ready to launch. For maximum parachute reliability, lightly dust the 'chute with ordinary talcum powder before each flight, especially in colder weather.





Nose Cone

Nose cone should separate easily from rocket body tube, but not be extremely loose. If fit is too tight, sand inside of body tube end and shoulder of nose cone with fine sandpaper.

If nose cone is too loose add a wrapping of transparent tape or masking tape to the shoulder of the nose cone.

Engine Fit

To activate streamer or parachute recovery gear correctly, the engine MUST be held in place SECURELY. This may be done by wrapping the nozzle end of the engine with tape until it makes a snug fit in the body tube or engine mount.

On models using engine holders, make sure the end of the holder latches securely over the end of the engine.

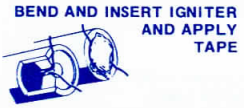
Igniter Installation

Estes standard NWI-1 igniters are supplied in strips and should be cut apart (scissors will work) midway between the coated sections. Bend the igniter at the middle as shown and push it into the engine nozzle as far as it will go.

Estes "Solar" igniters (Cat. No. NWI-2) are supplied precut and preshaped for direct insertion into the engine nozzle. Be sure to push the Solar igniter into the engine nozzle as far as it will go.

To operate properly both types of igniters must touch the propellant grain. Spread the leads and apply a square of masking tape to the nozzle and leads as shown. The eraser on the end of a pencil is good for pressing the tape securely into place.

Estes standard NWI-1 igniter can also be held in place by rolling a 1" square of flame-proof wadding into a ball and inserting it into the nozzle with a pen or pencil to hold the igniter firmly in place.



Launching

Lower the rocket into position on the launch rod or rail. Clean the micro-clips, then clip one to each lead of the igniter. The clips must not touch each other and the igniter leads must not cross. The rocket may be supported with a scrap of wood or an empty engine casing to make it easier to attach the clips and to keep the clips from touching the blast deflector plate and short circuiting.

COUNTDOWN: Give a countdown before launching your rocket. First arm the launch panel. Then begin counting: "5-4-3-2-1-Launch." Press the button and hold it down until the rocket lifts-off.

Misfires

Occasionally the igniter will heat and burn in two without igniting the engine. This is almost always caused by a failure to install it correctly. Disarm the launch panel, remove the model, clean the igniter residue from the nozzle and install a new igniter. Follow the launching procedure again.

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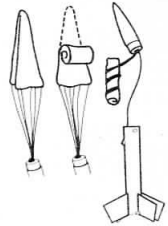

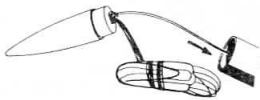

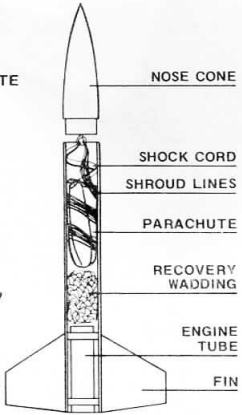

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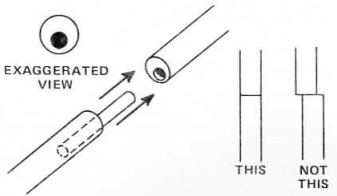
Launch Rod Assembly

Remove all tape from rod ends. Note that holes (and pin) in rod are slightly off-center. Place the two rod sections against each other so thick sides of holes are together. Push rod with pin into hole in other rod. If rods do not go together easily, tap the assembly gently on a concrete floor to join the halves. Check to be sure rod halves match smoothly at joint. Rotate one rod if necessary.



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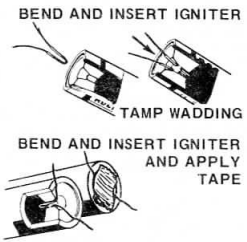

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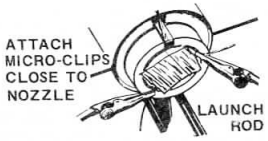

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